

WHAT IS CLAIMED IS:

1. A heat dissipating fan comprising:

a cover plate including an air inlet and a base;

an impeller mounted to the base and including a plurality of blades;

5 and

an air guiding member including an air passageway and an air outlet;

a portion of an axial height of the respective blade being received in  
the air passageway of the air guiding member;

a plurality of side inlets being defined between the cover plate and the  
10 air guiding member, air intake occurring simultaneously in the air inlet and in  
the side inlets when the impeller turns, driving airflow to exit the air outlet in  
a predetermined direction.

2. The heat dissipating fan as claimed in claim 1, wherein the cover  
plate includes a first engaging portion and the air guiding member includes a  
15 second engaging portion engaged with the first engaging portion.

3. The heat dissipating fan as claimed in claim 2, wherein the first  
engaging portion includes a plurality of through-holes and the second  
engaging portion includes a plurality of posts each having a screw hole  
aligned with the respective through-hole.

20 4. The heat dissipating fan as claimed in claim 2, wherein the second  
engaging portion includes a plurality of through-holes and the first engaging  
portion includes a plurality of posts each having a screw hole aligned with the

respective through-hole.

5. The heat dissipating fan as claimed in claim 1, wherein the impeller is mounted to an upper side of the base of the cover plate.

6. The heat dissipating fan as claimed in claim 1, wherein the impeller  
5 is mounted to an underside of the base of the cover plate.

7. The heat dissipating fan as claimed in claim 1, wherein a sectional area of an air outlet side of the air passageway is smaller than that of an air inlet side of the air passageway.

8. The heat dissipating fan as claimed in claim 1, wherein the air  
10 passageway extends in a direction at an angle with an airflow direction, guiding the airflow to the predetermined direction.

9. The heat dissipating fan as claimed in claim 1, wherein the cover plate includes a plurality of posts projecting downward from a peripheral portion of an underside of the cover plate, reducing possibility of entrance of  
15 alien objects and improving structural strength of the impeller.

10. The heat dissipating fan as claimed in claim 1, wherein the air guiding member includes a plurality of posts projecting upward from a peripheral portion of an upper side of the air guiding member, reducing possibility of entrance of alien objects and improving structural strength of  
20 the impeller.

11. The heat dissipating fan as claimed in claim 1, further including a plurality of ribs connected between the cover plate and the base.

12. The heat dissipating fan as claimed in claim 11, wherein the ribs form a plurality of stationary blades for guiding airflow.

13. The heat dissipating fan as claimed in claim 11, wherein the respective stationary blade includes an inclining angle opposite to that of the  
5 blades.